

**WHAT IS CLAIMED IS:**

1. A winding apparatus comprising:

a winding shaft on which a reel member capable of winding  
5 a given film at multiple stages can be mounted, and  
a driving mechanism for axially moving the winding shaft on  
which the reel member is mounted.

2. The winding apparatus of claim 1 comprising a marking  
10 mechanism for giving an identifiable marker on the film.

3. The winding apparatus of claim 2 comprising a detection  
mechanism for detecting the position at which the marker is to be  
given on the film and a controller for controlling the marking  
15 mechanism to operate on the basis of information from the detection  
mechanism.

4. A feeding apparatus comprising:

a feeding shaft on which a reel member wound a given film  
20 at multiple stages can be mounted and which can be moved in the  
rotational and axial directions of the reel member,

a driving mechanism for giving power in the rotational and  
axial directions to the feeding shaft, and

a detection mechanism capable of detecting a given marker  
25 on the film.

5. The feeding apparatus of claim 4 comprising a controller for controlling the driving mechanism to generate power at least in the axial direction on the basis of information from the detection mechanism.

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6. A film for multistage winding formed of an adhesive film containing an adhesive applied on a release film wherein the release film is exposed at predetermined intervals.

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7. A method for feeding a continuous film from a roll of the film wound at multiple stages in the axial direction of a feeding shaft, comprising feeding the film of a given stage and then feeding the film of the next stage by axially moving the winding shaft.

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8. A method for feeding a continuous film for multistage winding from a roll of the film wound at multiple stages, the film being formed of an adhesive film containing an adhesive applied on a release film wherein the release film is exposed at given intervals, the method comprising feeding the film of a given stage and then feeding  
20 the film of the next stage by axially moving the winding shaft on the basis of detected information of the exposed part of the release film.